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The Maryland Fruit Grower



SPECIAL PROGRAM
NUMBER



December, 1933



Maryland State
Horticultural Society

The
1933
HARVEST
proved...

the consistently superior results of first brood CODLING MOTH CONTROL with



OIL EMULSION 83
LIME SULPHUR
SOLUTION
DRY LIME SULPHUR
BORDEAUX MIXTURE
BORDEAUX DUST
COPPER LIME DUST
DRITOMIC SULPHUR
APPLE DRITOMIC
SULPHUR
ASTRINGENT ARSENATE
OF LEAD
ARSENATE OF LEAD
CALCIUM ARSENATE
ARSENATE OF ZINC
NICOTINE SULPHATE
40%
PARADICHLOROBENZENE-

ASTRINGENT ARSENATE of LEAD APPLE DRITOMIC SULPHUR

in all fruit growing districts and the effectiveness of properly timed applications of

for scab control, red spider, mites, etc.

You, too, will want to standardize on these superior spray materials for 1934.

For advice on these and other Orchard Brand Products, ask that a copy of 1934 "CASH CROPS" be reserved and sent you.

GENERAL CHEMICAL COMPANY

1 SOUTH BROAD STREET, PHILADELPHIA, PA.

Maryland ♦ Fruit ♦ Grower

Published Monthly By

The Maryland State Horticultural Society

A. F. Vierheller, Editor

Vol. 3

December, 1933

No. 12

P R O G R A M

Thirty-Sixth Annual Meeting

Maryland Horticultural Society

Horticultural Building, University of Maryland

College Park, Maryland

Tuesday, Wednesday and Thursday, January 2, 3 and 4, 1934
Meetings Begin at 1:00 p. m., Tuesday, January 2, 1934

The program has been arranged to deal with problems and subjects that are of greatest interest to fruit growers at the present time and under existing conditions. Every effort has been made to secure speakers who are thoroughly familiar with the topics to be considered, and growers are invited to ask questions and enter into the discussions.

The grower is interested, not in how many apples he can grow, but in how many apples he can market as GOOD FRUIT with a profit. Look over the program, and you will surely want to be present.

There will be commercial exhibits of orchard equipment, a fruit exhibit, some educational exhibits, and time will be allowed to see all of these features.

Why not plan to stay all three days if possible. Good rooms are available at nearby tourist homes at 75c and \$1.00 per person, per night. Meetings close Thursday in time to allow all to reach home that night.

Do not miss the annual dinner, Wednesday night, at the University Dining Hall. A good meal, good speakers and good fellows will await you there.

Arrange now, to attend these meetings. Your neighbor will thank you if you bring him along. BE ON TIME. Every speaker is worth hearing fully, and you may miss something. Let's make this a big meeting with lots of enthusiasm.

SEE IT ALL BEFORE YOU GO HOME

P R O G R A M

TUESDAY, JANUARY 2nd

1:00 p. m.

Call to Order.

President G. S. L. Carpenter, Hagerstown, Maryland.

Report of Treasurer.

Mr. A. F. Vierheller, College Park, Maryland.

Report of Secretary.

Mr. A. F. Vierheller, College Park, Maryland.

President's Annual Address.

Mr. G. S. L. Carpenter, Hagerstown, Maryland.

Appointment of Committees.

2:00 p. m.

Control of Rosy Aphis.

Prof. F. S. Hartzell, Associate Research Entomologist, New York
Agricultural Experiment Station, Geneva, New York.

3:00 p. m.

Codling Moth Control.

Dr. W. S. Hough, Entomologist, Winchester Field Laboratory,
Winchester, Virginia.

4:00 p. m.

Control of Rosy Aphis and Codling Moth in our Orchards.

Mr. Robert W. Simpson, Fruit Grower, Vincennes, Indiana.

5:00 p. m.

Inspection of Exhibits.

6:00 p. m.

Buffet Supper in Horticultural Building.

TUESDAY NIGHT PROGRAM ON PAGE 6

NOTES

BE SURE TO READ THE ADVERTISEMENTS

Baskets Crates

Cushions

Corrugated Caps

Basket Liners

Oil Paper



F. A. READ, Inc.

WINCHESTER, VA.

ALBION, N. Y.

BOSTON, MASS.

◆ **TRUCK DELIVERIES MADE** ◆

VISIT THE COMMERCIAL EXHIBITS

Feeding your FRUIT

Official Evidence

Virginia:

"Those blocks in our experimental orchards that have received complete fertilizer for the past ten years are now outgrowing and outyielding other blocks. This is explained by the greater amount of organic matter produced and eventually added to the soil."

Pennsylvania:

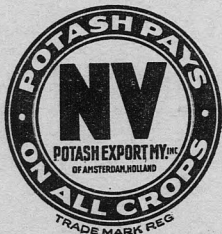
"The value of nitrogen as the sole ingredient of an orchard fertilizer has been greatly overstressed. The plots which have received a complete fertilizer are obviously superior, in growth of cover crop or sod, in vigor of trees, and in yields, to plots which have received nitrogen only."

New Jersey:

"A complete fertilizer has always been recommended for tree fruits in New Jersey. For the past few years the Horticultural Department has recommended that in general apple growers consider as a basic fertilizer treatment, the annual use of 75 to 100 pounds of Muriate of Potash and 400 to 500 pounds of Superphosphate per acre, with the addition of nitrogen-containing fertilizers according to the needs of the variety and the orchard."

WHEN there is a deficiency of organic matter in your orchard soil: "fruit spur and terminal growth is short, the bark becomes tight, the fruit does not size up, much of the fruit cracks in summer when dry spells are followed by rains, die-back or rosette appears on the terminals, more top and root injuries occur in winter and in many cases the addition of nitrogen fertilizers gives very little response."

Don't wait for your orchard to show these signs. Plan now to use a well-balanced fertilizer. Get a luxuriant growth of alfalfa or clover. These deep-rooted cover crops carry organic matter and the essential mineral elements—potash, phosphorus and lime—to the lower root-feeding zones where the trees readily take them up. This increases the yield of high-quality fruit of better size and color and improves the foliage and tree vigor of your orchard.



**N. V. POTASH
EXPORT MY., Inc.**

**Baltimore Trust Bldg.
BALTIMORE, M.D.**

VISIT THE EXHIBITS—ASK QUESTIONS

Dusting IN THE RAIN

"It Started to Rain . . .

we couldn't spray in the rain and we had less than half of the orchard covered in the last pre-blossom spray so we simply pulled the wet sprayer in the barn, hitched to the duster and finished up with KOLODUST IN THE RAIN. This is the only sulphur dust I have ever found that can be used in this way. The two check trees which we left undusted showed over ninety percent scab, while the crop in general is clean. We have done this same thing in previous years and it has always proved an emergency measure which has kept us out of trouble."

Above is an extract from a letter written by Mr. Arthur Boller, Sodus, New York. This emergency "*dusting in the rain*" is a standard practice with a number of good growers who have consistently brought through clean crops in "scab" years.

Niagara Kolodust (Fused Bentonite Sulphur) can be used in the rain because when it comes in contact with moisture it instantly dissolves on the foliage. Ordinary sulphur dusts, no matter how fine, do not meet the situation in similar emergencies.

NIAGARA SPRAYER &



CHEMICAL CO., INC.

MIDDLEPORT, N. Y.

PATRONIZE OUR ADVERTISERS

P R O G R A M

TUESDAY, JANUARY 2nd

7:00 p. m.

Cleaning Heavily Sprayed Fruit.

Dr. D. F. Fisher, Principal Horticulturist, U. S. Department of
Agriculture, Washington, D. C.

8:00 p. m.

Growers' Problems in Removing Spray Material.

Mr. Robert W. Simpson, Fruit Grower, Vincennes, Indiana.

WEDNESDAY MORNING PROGRAM ON PAGE 12

NOTES

VISIT THE EXHIBITS—ASK QUESTIONS

"AHEAD of the PARADE"

in Orchard Spraying



"TAROCIDE"

(old name Tarolene)

The most dependable dormant Spray for Aphis, Scale, Pear Psylla, Red Mite, Bud Moth and other insects.

The Oldest and Best Known TAR OIL SPRAY in America

"PRECIPTO"

"PRECIPTO"—the most revolutionary Summer Spray ever offered to fruit growers. Just as "TAROCIDE" (formerly called Tarolene) revolutionized dormant spraying, "PRECIPTO" is revolutionizing Summer spraying.

"PRECIPTO" makes it possible for you to use the old reliable and best fungicide—Lime Sulphur Solution—on Apples, Peaches, Cherries, Plums and many other plants without danger of scalding.

"GRO-ALL" OIL EMULSION—83%

The leading Oil Spray for Scale control. Mixes readily with Lime Sulphur, Bordeaux, and Nicotine.

CENCO OIL EMULSION—66 $\frac{2}{3}$ %

A reasonable priced, milk-white, free-flowing Emulsion containing 66 $\frac{2}{3}$ % highly refined Petroleum Oil of proper viscosity.

SULPHUR AND SULPHUR DUSTS

A SPRAY AND DUST FOR EVERY PURPOSE

Manufactured Only By

Central Chemical Company, Inc.

BALTIMORE, MARYLAND

Nearby Factories:

Mt. Jackson, Va.

Elkton, Va.

Crimora, Va.

Charles Town, W. Va.

Harrisonburg, Va.

BE SURE TO READ THE ADVERTISEMENTS

OPPORTUNITY

*Buy and Plant This Fall Before
Prices Advance*

Don't be one of those who will say, "I WISH I HAD BOUGHT MY TREES."

ACT NOW

We have one of the largest and most complete assortments of high grade fruit trees and ornamentals available today.

WE SPECIALIZE IN

PEACH ^{AND} TREES APPLE

Our peach trees are extra fine this year. Just the kind of trees that grow and make an orchard you can be proud of. All leading commercial varieties, including:

GOLDEN JUBILEE

—AND—

SHIPPERS LATE RED

The quality of our apple trees is well known. We have the same dependable trees to offer this year. You should know more of our new varieties:

RICHARD DELICIOUS BLAXTAYMAN GALLIA BEAUTY
RED ROME LOBO McINTOSH

They Mean Added Profits for the Fruit Growers

A complete list of all leading commercial varieties of apples, both one and two-year trees.

**Thousands of Extra Fine 2-Year Old
YORK IMPERIAL TREES**

We also specialize in small fruit plants such as Strawberries, Raspberries, Blackberries, and Grapes. We have all leading commercial varieties.

WE SELL DIRECT TO THE PLANTERS AT FAIR PRICES

Send for our complete price list today and buy from no nursery until you receive our prices and know more about the

Bountiful Ridge Nurseries

PRINCESS ANNE, MARYLAND

WHY NOT BUY NOW?

THE PLACE TO BUY YOUR SPRAY MATERIALS

Twenty-two years experience manufacturing Spray Materials

TAR OIL-PETROLEUM OIL

Free flowing (no paste)

An effective control against Aphis, Scale, Red Mite, Bud Moth and other insects. We use the best grade of Tar Oil obtainable for Tree Spraying purposes. It is guaranteed to meet the following specifications:

1. Tar Oil remains crystal free on standing for 3 hrs. at 5°C., with occasional stirring.
2. Does not contain more than 3% of water.
3. Does not contain more than 10% of tar acids.
4. The distillate based on water-free oil shall be within the following limits:

Up to 210°C., not more than 1 per cent.

Up to 235°C., not more than 10 per cent.

Up to 355°C., not less than 65 per cent.

Shipped in 50 gallon steel drums

FREE FLOWING

TAR OIL (free flowing) 64%

Can be combined with home-made Oil Emulsion to control Aphis and Scale.

"HY-GRADE" NEW PROCESS OIL PASTE, 90%

A high grade Oil, high viscosity, paste form.

OIL EMULSION, 66%

A free flowing Emulsion, high viscosity Oil.

SPRAY MATERIALS FOR ALL PURPOSES

Specializing in Nitrates
Carload and Less

Information and prices cheerfully given

BUY ONCE—ALWAYS

Hagerstown Spray Material Co.
Hagerstown Sulphur Works
HAGERSTOWN, MD.

Southern Chemical Co.
WINCHESTER, VA.

KEEP THIS PROGRAM FOR FUTURE REFERENCE

LIST OF EXHIBITS TO DATE

Alban Tractor Company, Inc.—Tractors and Tillage Tools.
American Cyanamid Company—Nitrogen Fertilizers.
Bean Manufacturing Company—Spray Machinery, Fruit Cleaners and Washers
B. G. Pratt Company—Spray Oils and Materials
Bountiful Ridge Nurseries—Nursery Stock
Central Chemical Company—Spray Materials and Fertilizers
F. A. Read, Inc.—Packing Materials
Friend Manufacturing Company—Spray Machinery
Fred C. Strype—Packing Materials
General Chemical Company—Spray Materials
Hagerstown Spray Material Company—Spray Materials and Fertilizers
Hardie Manufacturing Company—Spray Machinery
International Harvester Company—Tractors and Tillage Tools
J. D. Graybill—Graders and Fruit Cleaners
Koppers Products Company—Spraying Sulfurs
Lupton Orchard Service Company—General Orchard Supplies
Matthews Conveyor Company—Fruit Washers
Niagara Sprayer and Chemical Co.—Sprays, Dusts and Dusting Machines
N. V. Potash Export My, Inc.—Potash Fertilizers
Rice, Trew and Rice Company—Packing Equipment and Materials
Tobacco By-Products and Chemical Corp., Inc.—Tobacco Sprays and Dusts
Wayland Machinery Company—Fruit Washers and Graders

NOTES

SEE IT ALL BEFORE YOU GO HOME

A superior FRUIT FERTILIZER

'AERO' *Granular* CYANAMID



BECAUSE—

- It feeds trees evenly throughout season
- It grows large dark-green leaves
- It holds leaves on entire summer
- It produces good set of fruit and fruit buds
- It improves color of fruit
- It increases yield

and Because—

- It is the only nitrogen fertilizer that carries hydrated lime to sweeten the soil.

|| ONE TON OF 'AERO' CYANAMID SUPPLIES 1400
POUNDS OF HYDRATED LIME IN ADDITION TO
440 POUNDS OF NITROGEN ||



For further information, write
AMERICAN CYANAMID COMPANY
Manufacturers of 'Aero' Cyanamid and 'Ammono-Phos'
535 FIFTH AVENUE NEW YORK, N. Y.

Cyanamid is NITROGEN plus LIME

OUR ADVERTISERS DESERVE YOUR PATRONAGE

P R O G R A M

WEDNESDAY, JANUARY 3rd

10:00 a. m.

The Story of Apple Scab and Its Control.

Dr. H. H. Whetzel, Chief of Department of Plant Pathology,
Cornell University, Ithaca, New York.

11:00 a. m.

How We Produced a Clean Crop in 1933.

Mr. Harry W. Miller, Fruit Grower, Paw Paw, West Virginia.

1:00 p. m.

Inspection of Exhibits.

WEDNESDAY AFTERNOON PROGRAM ON PAGE 16

NOTES

HELP YOUR HORTICULTURAL SOCIETY TO GROW

THINGS TO SEE

Commercial Exhibits

Educational Exhibits

Fruit Washers

Fruit Exhibit

Student "Entomology Club" Exhibit

Student "Horticultural Club" Exhibit

NOTES

OUR ADVERTISERS AND EXHIBITORS ARE RELIABLE

OUR ADVERTISERS

	Page
Alban Tractor Company, Inc., Baltimore, Maryland	Facing 24
American Cyanamid Company, New York, N. Y.	11
B. G. Pratt Company, New York, N. Y.	Back Cover
Bountiful Ridge Nurseries, Princess Anne, Maryland	8
Central Chemical Company, Hagerstown and Baltimore, Maryland	7
F. A. Read, Inc., Albion, New York	3
Fred C. Strype, New York, N. Y.	23
General Chemical Company, New York, N. Y.	Facing 1
Hagerstown Spray Material Company, Hagerstown, Maryland	9
International Harvester Company, Baltimore, Maryland	17
Koppers Products Company, Pittsburgh, Pennsylvania	15
Niagara Sprayer and Chemical Company, Middleport, New York	5
N. V. Potash Export My, Inc., New York, N. Y. and Baltimore, Md.	4
Pioneer Paper Company, Chicago, Illinois	19
Rice, Trew and Rice, Inc., Biglerville, Pennsylvania	24
Sun Oil Company, Philadelphia, Pennsylvania	21

NOTES

MENTION THIS PROGRAM WHEN WRITING ADVERTISERS

ge
24
11
8
7
3
23
1
9
17
15
5
4
19
24
21

BUY
the
BEST
and
SAFEST

KOPPERS



**FLOTATION
SULPHUR**

TRADE MARK

The Original and Genuine Flotation Sulphur carries the name Koppers and the above trade mark. It is backed by 8 years of scientific research, prepared under strict laboratory control, and is the only Flotation Sulphur endorsed by the Crop Protection Institute.

KOPPERS PRODUCTS COMPANY
KOPPERS BUILDING PITTSBURGH, PA.

ARE YOU A PAID-UP MEMBER?

P R O G R A M

WEDNESDAY, JANUARY 3rd

2:00 p. m.

Protecting Our Peach Crop from Brown Rot.

Dr. H. H. Whetzel, Chief of Department of Plant Pathology,
Cornell University, Ithaca, New York.

3:00 p. m.

How I Produced a Clean Crop of Peaches in 1933.

Mr. Sheldon Funk, Fruit Grower, Boyertown, Pennsylvania.

4:00 p. m.

Our Insect and Disease Control in 1934.

Dr. E. N. Cory, State Entomologist, College Park, Maryland.

5:00 p. m.

Inspection of Exhibits.

WEDNESDAY NIGHT PROGRAM ON PAGE 18

NOTES

READ EVERY ADVERTISEMENT AGAIN

McCormick-Deering Orchard Tractors

...and...

T20 Tractors

...with...

Orchard Tools

For Better Orchards

Sold and Serviced Everywhere

...by...

McCORMICK-DEERING DEALERS

**INTERNATIONAL HARVESTER
COMPANY OF AMERICA**

BALTIMORE,

MARYLAND

GENUINE



REPAIRS

DON'T MISS THE COMMERCIAL EXHIBIT

P R O G R A M

WEDNESDAY, JANUARY 3rd

6:30 p. m.

Annual Get-Together Dinner.

7:30 p. m.

Address of Welcome.

Dr. Raymond A. Pearson, President, University of Maryland,
College Park, Maryland.

Greetings of the Experiment Station.

Dr. H. J. Patterson, Director, Maryland Experiment Station,
College Park, Maryland.

Greetings of the Extension Service.

Dr. T. B. Symons, Director, Extension Service, University of
Maryland, College Park, Maryland.

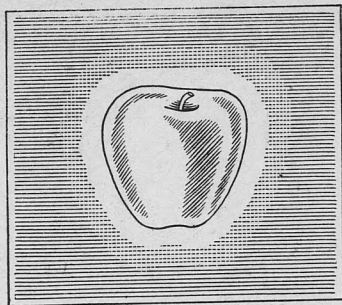
Our Foreign Trade Policy—Nationalism or Internationalism.

Mr. Sam Fraser, International Apple Association, Rochester, N. Y.

THURSDAY MORNING PROGRAM ON PAGE 20

NOTES

ARE YOU A PAID-UP MEMBER?



THE ECONOMY OF QUALITY . . .

For a crop that has taken months of time and work, to say nothing of many dollars expended, there can be no compromise with quality in packing materials.

Pioneer Shreds are heavily impregnated with pure mineral oil, to effectively prevent scald, and preserve the fine condition of the fruit.

Available in bright colors—purple, red, green. Other paper packing materials are also available from this source, where quality is of primary importance.

Write for samples and name of nearest dealer.

PACKING MATERIALS DIVISION

PIONEER PAPER STOCK COMPANY

422 WEST OHIO STREET, CHICAGO, ILLINOIS



OUR ADVERTISERS CAN SUPPLY YOUR NEEDS

P R O G R A M

THURSDAY, JANUARY 4th

10:00 a. m.

Mutual Problems of the Grower and the Nurseryman.

Mr. Hale Harrison, Fruit Grower, President, Harrison's Nurseries,
Berlin, Maryland.

10:45 a. m.

How the Agricultural Adjustment Act Can Benefit the Fruit Industry.

Mr. Porter Taylor, Senior Marketing Specialist, Agricultural Ad-
justment Administration, U. S. Department of Agriculture,
Washington, D. C.

11:45 a. m.

Lunch and Inspection of Exhibits.

THURSDAY AFTERNOON PROGRAM ON PAGE 22

NOTES

PATRONIZE OUR ADVERTISERS

**A
NEW
SERVICE**

Now You Can Buy

SUNOCO
SELF
EMULSIFYING SPRAY

**Direct from our Branches and Warehouses
in your vicinity**

Baltimore, Md.—Russell & Elk Sts.
Chambersburg, Pennsylvania
Chestertown, Maryland
Cumberland, Maryland
Denton, Maryland
Frederick, Maryland
Middletown, Delaware
Milford, Delaware
Odessa, Delaware
Salisbury, Maryland
Washington, D. C.—15th & H Sts.
Wilmington, Del.—920 King St.

SUNOCO SPRAY

**Emulsifies readily
Controls Scale and Red Mite,
Is Safe and Effective**

TEN YEARS OF PROVEN VALUE

SUN OIL COMPANY

1608 Walnut St.

Philadelphia

MAKERS OF BLUE SUNOCO MOTOR FUEL

IS YOUR NEIGHBOR A MEMBER OF THIS SOCIETY?

P R O G R A M

THURSDAY, JANUARY 4th

2:00 p. m.

Securing Funds Through the Production Credit Associations.

Mr. S. M. Garwood, Production Credit Commissioner, Farm Credit,
Administration, Washington, D. C.

3:00 p. m.

Adjusting Orchard Practices to Meet Present Conditions.

Mr. C. E. Bryan, Fruit Grower, Havre De Grace, Maryland.

ANNUAL CONVENTION

Maryland Farm Bureau and Maryland Agricultural Society

Lord Baltimore Hotel, Baltimore, Maryland

January 9, 10, 11 and 12, 1934

NOTES

MENTION THIS PROGRAM WHEN WRITING ADVERTISERS

Sunset Oiled Apple Wraps

FOR BOXED APPLES

Sunset Shredded Oil Paper

FOR BARRELS, HAMPERS AND BASKETS

12 lb. Basis 18% Saturation, U. S. P. Oil

ODORLESS, TASTELESS AND PURE

PREVENTS AND CONTROLS SCALD

Insures your fruit and makes marketing early or late in good condition possible. Decorates your container and assures highest prices.

...SOLE DISTRIBUTOR...

FRED C. STRYPE

148 LAFAYETTE STREET

NEW YORK CITY

STOCKS CARRIED IN ALL GROWING DISTRICTS

Insist upon the genuine—look for the label on the carton

READ EVERY ADVERTISEMENT AGAIN

Take time....

to discuss with J. W. Trew
your needs in fruit packing
supplies for next season

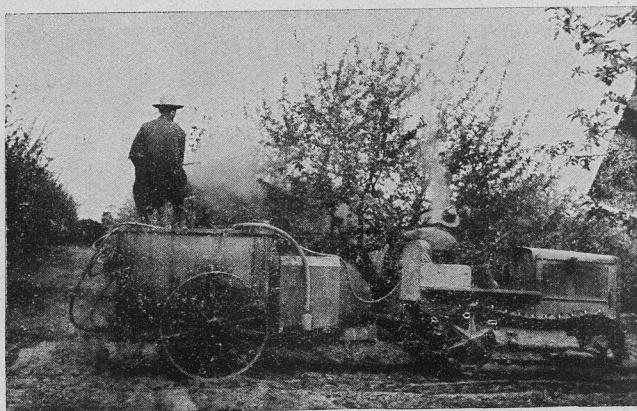
AND

see a complete line with the
latest improvements.

EXHIBIT ROOM

Rice, Trew & Rice Company
Biglerville, Pa.

OUR ADVERTISERS CAN SUPPLY YOUR NEEDS



CATERPILLAR Tractors are BETTER, QUICKER, and CHEAPER for all farm and horticultural uses where dependable power and traction is required at the lowest possible cost of production. We are confident that we should exercise the same care and thought in buying machinery as that of selecting our seeds and plants.

We carry at all times a complete stock of CATERPILLAR Tractors and proven machinery to work with them which are the latest and proven equipment for the farmer. Ask us to demonstrate and furnish you with the cost of seed bed and cultivation costs. This is free for the asking!

CATERPILLAR Tractors, CATERPILLAR Combines, mowers, rakes, Killefer tillage equipment.

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REG. U. S. PAT. OFF.

ALBAN TRACTOR COMPANY, Inc.

725-727 EAST 25th STREET

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Baltimore, Md.

FOR APHIS CONTROL

PRATT OFFERS TWO TAR OIL WASHES

TAR-O-WASH

—and—

STRAITAR

SPRAY WITH PRATT'S PRODUCTS AND BE SURE

Scalecide, the complete dormant spray. It is the oil spray which controls more pests, adds more vigor to the trees, is more certain in its control, insures the heaviest crop of any type of spray. Dilutes 1 to 15.

Pratt's "83" is an oil emulsion of highly refined lubricating oils at low cost. It represents the highest type of lubricating oil emulsion made only as Pratt knows how to make oil sprays. Will not freeze—combines with lime sulfur. Generally dilutes 4 gallons to 100.

Pratt's "66" is a most inexpensive oil emulsion. Compares favorably with any Government 66% oil emulsion. All oils in Pratt's "66" must meet B. G. Pratt's high standard for safety and efficiency. Dilutions should follow the local state recommendations for this class of oil.

TAR-O-WASH is a combination of a highly refined lubricating oil emulsion and tar oil for the control of scale insects as well as aphids—contains 50% tar oil and 33% lubricating oil.

STRAITAR is an emulsion containing 85% straight tar oil, selected for highest efficiency (no petroleum oil) which may be used alone for aphids. For scale, combine with home-made lubricating oil emulsion or any oil spray with which it may be compatible. Three gallons STRAITAR to 100 gallons is equal to 2½% of tar oil, which is the experiment station recommendation for Cumberland-Shenandoah Valley.

Prices so low that it will hardly pay to make at home.

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New York, N. Y.